

VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		132		
Blend Weight, Pounds		10,400		
Date		3-28-79		
Laboratory				
Disposition	VMCA-	REJECTED*		
Batch Status		3 (PDW)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.2		
Polyvinyl Chloride, %	(79.0/82.0)	81.8		
Inherent Viscosity	(0.30 min.)	0.30		
Foreign Matter, Slurry	(8 maximum)	10+*		
Water, %	(0.5, max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(15, max.)	5		
Solution Tests	Viscosity, cps	(300/450)	437	
	Color	(80 min.)	81	
	Turbidity	(85 min.)	73*	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.016	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.1/2.5)	1.94*		
VCL Monomer, ppm	(1, max.)	<0.2		



Mr. R. M. Arnold, 133/515
Mr. W. T. Gray, 88/515
Mr. G. S. Peacock, 98/312
Mr. M. D. Pearson, 3001-7
Mr. P. D. Wegrzynowicz, 152-2

H. C. Starnes
PLANT LABORATORY 4-6-79
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

Jjh

CONFIDENTIAL

UCC - 109442

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		131		
Blend Weight, Pounds		67,500		
Date		3-24-79		
Laboratory				
Disposition	VMCA-	PASSED		
Batch Status		8		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.2		
Polyvinyl Chloride, %	(79.0/82.0)	81.7		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(8 maximum)	8		
Water, %	(0.5, max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(15, max.)	5		
Solution Tests	Viscosity, cps	(300/450)	448	
	Color	(80 min.)	95	
	Turbidity	(85 min.)	99	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.008	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.1/2.5)	2.4		
VCL Monomer, ppm	(1, max.)	<0.2		

Mr. R. M. Arnold, 133/515
 Mr. W. T. Gray, 88/515
 Mr. G. S. Peacock, 98/312
 Mr. M. D. Pearson, 3001-6
 Mr. P. D. Wegrzynowicz, 152-2

H. E. Palmer
 PLANT LABORATORY 3-26-79
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

jjh

CONFIDENTIAL

UCC - 109443

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		128	129	130
Blend Weight, Pounds		83,250	81,000	72,500
Date		3-20-79	3-23-79	3-21-79
Laboratory				
Disposition	VMCA-	PASSED	PASSED	PASSED
Batch Status		8	8	8

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, % (3.0 max.)		2.4	2.2	2.3
Polyvinyl Chloride, % (79.0/82.0)		82.0	80.8	81.0
Inherent Viscosity (0.30 min.)		0.32	0.31	0.32
Foreign Matter, Slurry (8 maximum)		5	8	6
Water, % (0.5, max.)		0.2	0.2	0.2
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm (15, max.)		6	5	6
Solution Tests	Viscosity, cps (300/450)	435	365	425
	Color (80 min.)	96	94	96
	Turbidity (85 min.)	100	100	95
Insoluble Matter, %	10% Solution (0.03 max.)	0.008	0.010	0.008
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, % (2.1/2.5)		2.4	2.4	2.4
VCL Monomer, ppm (1, max.)		<0.2	<0.2	<0.2

Mr. R. M. Arnold, 133/515
 Mr. W. T. Gray, 88/515
 Mr. G. S. Peacock, 98/312
 Mr. M. D. Pearson, 3001-6
 Mr. P. D. Wegrzynowicz, 152-2

J. E. [Signature]
 PLANT LABORATORY 3-28-79
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

Jjh

UCC - 109444

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		125	126	127
Blend Weight, Pounds		67,500	72,000	76,500
Date		3-14-79	3-17-79	3-15-79
Laboratory				
Disposition	VMCA-	PASSED	PASSED	PASSED
Batch Status		8	8	8

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.9	2.1	2.2
Polyvinyl Chloride, %	(79.0/82.0)	81.0	81.0	80.4
Inherent Viscosity	(0.30 min.)	0.31	0.31	0.33
Foreign Matter, Slurry	(8 maximum)	4	7	4
Water, %	(0.5, max.)	0.2	0.2	0.1
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(15, max.)	3	14	6
Solution Tests	Viscosity, cps	(300/450)	325	328
	Color	(80 min.)	97	94
	Turbidity	(85 min.)	99	96
Insoluble Matter, %	10% Solution	(0.03 max.)	0.008	0.010
	Special Solvent			0.006
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.1/2.5)	2.1	2.4	2.3
VCL Monomer, ppm	(1, max.)	<0.2	<0.2	<0.2

Mr. R. M. Arnold, 133/515
Mr. W. T. Gray, 78/515
Mr. G. S. Peacock, 98/312
Mr. M. D. Pearson, 3001-7
Mr. P. D. Wegrzynowicz, 152-2

J. E. DeWitt
PLANT LABORATORY
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA. 3-19

CONFIDENTIAL

jjh

UCC - 109445

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		122	123	124
Blend Weight, Pounds		74,250	67,500	72,000
Date		3-6-79	3-7-79	3-10-79
Laboratory				
Disposition	VMCA-	PASSED	PASSED	REJECTED
Batch Status		8	8	2 (PDW)

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, % (3.0 max.)		2.2	2.3	2.5
Polyvinyl Chloride, % (79.0/82.0)		81.8	82.0	81.8
Inherent Viscosity (0.30 min.)		0.33	0.31	0.31
Foreign Matter, Slurry (8 maximum)		7	8	6
Water, % (0.5, max.)		0.1	0.3	0.2
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm (15, max.)		5	10	5
Solution Tests	Viscosity, cps (300/450)	350	366	415
	Color (80 min.)	97	96	95
	Turbidity (85 min.)	95	96	98
Insoluble Matter, %	10% Solution (0.03 max.)	0.006	0.01	0.008
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, % (2.1/2.5)		2.2	2.1	2.0*
VCL Monomer, ppm (1, max.)		<0.2	<0.2	<0.2

Mr. R. M. Arnold, 133/515
Mr. W. T. Gray, 88/515
Mr. G. S. Leacock, 98/312
Mr. M. D. Pearson, 3001-6
Mr. P. D. Wegrzynowicz, 152-2

[Signature]
PLANT LABORATORY 3-14-79
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

jjh

UCC - 109446

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
 VMCA

Blend Number		120	121	
Blend Weight, Pounds		76,500	76,500	
Date		2-28-79	3-3-79	
Laboratory				
Disposition	VMCA-	REJECTED*	REJECTED*	
Batch Status		2 (PDW)	2 (PDW)	

Appearance (White, powdered, solid)		PASSED	PASSED	
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.5	2.6	
Polyvinyl Chloride, %	(79.0/82.0)	80.7	80.0	
Inherent Viscosity	(0.30 min.)	0.30	0.31	
Foreign Matter, Slurry	(8 maximum)	8	7	
Water, %	(0.5, max.)	0.3	0.4	
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(15, max.)	5	4	
Solution Tests	Viscosity, cps	(300/450)	277*	280*
	Color	(80 min.)	97	97
	Turbidity	(85 min.)	95	95
Insoluble Matter, %	10% Solution	(0.03 max.)	0.008	0.006
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.1/2.5)	2.6*	2.4	
VCL Monomer, ppm	(1, max.)	<0.2	<0.2	

Mr. R. M. Arnold, 133/515
 Mr. W. T. Gray, 88/515
 Mr. G. S. Peacock, 98/312
 Mr. M. D. Pearson, 3001-6
 Mr. P. D. Wegrzynowicz, 152-2

L. E. Calvert
 PLANT LABORATORY 3-6-79
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

jjh

UCC - 109447

551

Blend Number	11	118
Blend Weight, Pounds	13,500	27,000
Date	8-24-78	8-25-78
Laboratory		
Disposition	REJECTED	REJECTED*
Batch Status	2 (PDW)	2 (PDW)

[illegible]

UCC - 109448

CONFIDENTIAL

A. J. Calvert

PLANT LABORATORY 8-29-78
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON WEST VA

Mr. R. M. Arnold, 133/515
Mr. W. T. Gray, 38/515
Mr. G. S. Peacock, 98/312 +
Mr. M. D. Pearson, 3001-6
Mr. P. D. Wegrzynowicz, 152-2
Mr. R. N. Wheeler, 189-3

SECRET
NO FOREIGN DISSEM

Blend 100% I	100%
Blend 75% I, 25% II	75% I, 25% II
etc.	etc.
Label 100%	100%
Label 75% I, 25% II	75% I, 25% II
Label 50% I, 50% II	50% I, 50% II
Label 25% I, 75% II	25% I, 75% II
Label 100% II	100% II

Appearance (Wet/Dry)		PASSED	
Size 3 thru No. 20 Sieve			
Heating Loss, %		(3.0 max.)	1.7
Polyvinyl Chloride, %		(75.0/85.0)	81.7
Inherent Viscosity		(0.10 max.)	0.26
Surfactant, %		(0.0 max.)	0
Water, %		(0.1 max.)	0.4
Polyvinyl Alcohol, %			
Heat Stability			
Lead, ppm		(10 max.)	9
Solution Tests	Viscosity, cps	(300/450)	518*
	Color	(80 min.)	93
	Turbidity	(85 min.)	86
Insoluble Matter, %	10% Solution	(0.02 max.)	0.006
	Special Solvent		
Apparent Density, lbs/cu. ft.			
Maleic acid, %		(2.1/2.5)	2.2

UCC - 109449

UCC - 109449

Mr. R. M. Arnold, 133/515
Mr. W. T. Gray, 88/515
Mr. G. S. Peacock, 98/312+
Mr. M. D. Pearson, 3001-6
Mr. P. D. Wegrzynowicz, 152-2
Mr. E. N. Wheeler, 129-3

CONFIDENTIAL

A. E. Vincent
PLANT LABORATORY 9-5-78
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

DISCARD ORIGINAL REPORT

MALEIC VINYL RESIN (Solvent Polymerization) VMA

Blend Number	114	115
Blend Weight, Pounds	85,500	85,500
Date	8-20-78	8-26-78
Laboratory		
Disposition	REJECTED*	REJECTED*
Batch Status	2 (PDW)	2 (PDW)

Appearance (White, powdered, solid)		PASSED	PASSED	
Size, % thru No. 20 Sieve				
Heating Loss, % (3.0 max.)		2.3	2.1	
Polyvinyl Chloride, % (79.0/82.0)		81.3	81.2	
Inherent Viscosity (0.30 min.)		0.32	0.33	
Foreign Matter, Slurry (8 maximum)		10*	10*	
Water, % (1.0 max.)		0.5	0.3	
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm (15, max.)		11	26*	
Solution Tests	Viscosity, cps (300/450)	360	405	
	Color (80 min.)	94	86	
	Turbidity (85 min.)	95	89	
Insoluble Matter, %	10% Solution (0.03 max.)	0.006	--	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, % (2.1/2.5)		2.5	2.1	

UCC - 109450

Mr. R. M. Arnold, 133/515
Mr. W. T. Gray, 88/515
Mr. G. S. Peacock, 98/312
Mr. M. D. Pearson, 3001-6
Mr. P. D. Wegrzynowicz, 152-2
Mr. R. N. Wheeler, 189-3

CONFIDENTIAL

H. L. Delist
PLANT LABORATORY 9-8-78
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		113		
Blend Weight, Pounds		81,000		
Date		8-18-78		
Laboratory				
Disposition	VMCA-			
Batch Status		REJECTED* 2 (PDW)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.5		
Polyvinyl Chloride, %	(79.0/82.0)	81.9		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(8 maximum)	10*		
Water, %	(1.0 max.)	0.6		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(15, max.)	11		
Solution Tests	Viscosity, cps	(300/450)	365	
	Color	(80 min.)	96	
	Turbidity	(85 min.)	86	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.1/2.5)	2.4		
VCL MONOMER, ppm	(1 max.)	<0.2		

UCC - 109451

Mr. R. M. Arnold, 133/515
Mr. W. T. Gray, 88/515
Mr. G. S. Peacock, 98/312
Mr. M. D. Pearson, 3001-6
Mr. P. D. Wegrzynowicz, 152-2
Mr. R. N. Wheeler, 189-3

H. L. Gilbert
PLANT LABORATORY 9-8-78
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

jjh

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		111	112	
Blend Weight, Pounds		74,250	83,250	
Date		8-10-78	8-12-78	
Laboratory				
Disposition	VMCA-	REJECTED*	PASSED	
Batch Status		2 (PDW)	8	

Appearance (White, powdered, solid)		PASSED	PASSED	
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.0	2.2	
Polyvinyl Chloride, %	(79.0/82.0)	81.4	81.5	
Inherent Viscosity	(0.30 min.)	0.31	0.32	
Foreign Matter, Slurry	(8 maximum)	10*	8	
Water, %	(1.0 max.)	0.2	0.3	
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(15, max.)	6	6	
Solution Tests	Viscosity, cps	(300/450)	335	310
	Color	(80 min.)	90	90
	Turbidity	(85 min.)	91	92
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	0.004
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.1/2.5)	2.2	2.2	
VCL MONOMER, ppm	(1 maximum)	<0.2	<0.2	

UCC - 109452

Mr. R. M. Arnold, 133/515
 Mr. W. T. Gray, 88/515
 Mr. G. S. Peacock, 98/312
 Mr. M. D. Pearson, 3001-6
 Mr. P. D. Wegrzynowicz, 152-2
 Mr. R. N. Wheeler, 189-3

jjh

CONFIDENTIAL

[Signature]
 PLANT LABORATORY 9-8-78
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

ACRYLONITRILE VINYL RESIN
(Solvent Polymerization)
MCA

Blend Number	108	109	110
Blend Weight, Pounds	87,750	87,750	69,750
Date	8-1-78	8-8-78	8-9-78
Laboratory			
Disposition	REJECTED*	REJECTED*	REJECTED*
Batch Status	2 (PDW)	2 (PDW)	2 (PDW)

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, ϕ thru No. 20 Sieve				
Heating Loss, % (3.0 max.)		2.3	2.7	2.6
Polyvinyl Chloride, % (79.0/82.0)		82.0	80.9	79.8
Inherent Viscosity (0.30 min.)		0.30	0.31	0.30
Foreign Matter, Slurry (8 maximum)		5	10*	7
Water, % (1.0 max.)		0.3	0.3	0.9
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm (15 maximum)		11	8	13
Solution Tests	Viscosity, cps (300/450)	282*	250*	275*
	Color (80 min.)	93	91	91
	Turbidity (85 min.)	89	95	91
Insoluble Matter, %	10% Solution (0.03 max.)	0.004	0.004	0.004
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, % (2.1/2.5)		2.4	2.3	2.3

UCC - 109453

CONFIDENTIAL

Mr. R. M. Arnold, 515
Mr. W. T. Gray, Bldg. 88 - Texas City
Mr. G. S. Peacock, 312
Mr. M. D. Pearson, 3001-6
Mr. P. D. Wegrzynowicz, 152
Mr. R. N. Wheeler, 189

PLANT LABORATORY 9-B-78
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

(a) A CORRECTED REPORT
 "BAKELITE" VINYL RESIN
 (Solvent Polymerization)
 VMCA

Blend Number		105	106	107
Blend Weight, Pounds		90,000	69,750	90,000
Date		12-10-77	12.12-77	12 -13-77
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	REJECTED
Batch Status		4 (CEF)	4 (CEF)	3 (CEF) (a)

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.3	2.3	1.8
Polyvinyl Chloride, %	(79.0/82.0)	81.9	82.2 *	80.7
Inherent Viscosity	(0.30 min.)	0.32	0.32	0.33
Foreign Matter, Slurry	(9 maximum)	5	5	10+ *
Water, %	(1.0 max.)	0.3	0.3	0.4
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(15 maximum)	7	6	7
Solution Tests	Viscosity, cps	(300/450)	440	348
	Color	(80 min.)	96	88
	Turbidity	(85 min.)	96	92
Insoluble Matter, %	10% Solution	(0.03 max.)	0.008	0.004
	Special Solvent			0.006
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.6 *	2.8 *	2.9 *
VCL MONOMER, PPM	(1 maximum)	<0.5	<0.5	<0.5
(a) Reclassified. Please discard original report, dated 12-19-77				

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

UCC - 109454

H. L. O'Neil
 PLANT LABORATORY
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

mfl

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		104		
Blend Weight, Pounds		85,500		
Date		12-3-77		
Laboratory				
Disposition	VMCA-	PASSED		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.8		
Polyvinyl Chloride, %	(79.0/82.0)	81.4		
Inherent Viscosity	(0.30 min.)	0.31		
Foreign Matter, Slurry	(9 maximum)	6		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	381	
	Color	(80 min.)	94	
	Turbidity	(85 min.)	96	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5		
VCL MONOMER, PPM	(1 maximum)	<0.5		

UCC - 109455

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 TC
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

H. L. Valvat
PLANT LABORATORY 12-7-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

mfl

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		103		
Blend Weight, Pounds		96,750		
Date		12-8-77		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.4		
Polyvinyl Chloride, %	(79.0/82.0)	80.6		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	2		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	315	
	Color	(80 min.)	97	
	Turbidity	(85 min.)	100	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.9 *		
VCL MONOMER, PPM	(1 maximum)	<0.5		

UCC - 109456

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

mfl

CONFIDENTIAL

H. L. Calvert
 PLANT LABORATORY 12-13-77
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

(a) A CORRECTED REPORT

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		102		
Blend Weight, Pounds		49,500		
Date		12-13-77		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		3 (CEF) (a)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.8		
Polyvinyl Chloride, %	(79.0/82.0)	81.5		
Inherent Viscosity	(0.30 min.)	0.34		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.4		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	40		
Solution Tests	Viscosity, cps	(300/450)	485 *	
	Color	(80 min.)	90	
	Turbidity	(85 min.)	99	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	3.3 *		
VCL MONOMER, PPM	(1 maximum)	<0.5		
(a) Batch Status changed from 4 to 3. Please discard original report, dated 12-15-77				

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 TC
Mr. G. S. Peacock, 312
Mr. T. J. Salemb, 312
Mr. R. N. Wheeler, 189

mfl

CONFIDENTIAL

H. E. Asbert
PLANT LABORATORY 1-9-78
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

UCC - 109457

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		101		
Blend Weight, Pounds		69,750		
Date		11-30-77		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.5		
Polyvinyl Chloride, %	(79.0/82.0)	80.5		
Inherent Viscosity	(0.30 min.)	0.33		
Foreign Matter, Slurry	(9 maximum)	6		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	350	
	Color	(80 min.)	98	
	Turbidity	(85 min.)	90	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.7 *		
VCL MONOMER, PPM	(1 maximum)	<0.5		

UCC - 109458

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 TC
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

H. L. [Signature]
PLANT LABORATORY 12-2-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

mfl

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		100		
Blend Weight, Pounds		85,000		
Date		12-2-77		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.3		
Polyvinyl Chloride, %	(79.0/82.0)	80.9		
Inherent Viscosity	(0.30 min.)	0.31		
Foreign Matter, Slurry	(9 maximum)	10 *		
Water, %	(1.0 max.)	0.25		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	401	
	Color	(80 min.)	92	
	Turbidity	(85 min.)	94	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5		
VCL MONOMER, PPM	(1 maximum)	<0.5		

UCC - 109459

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 TC
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

A. L. Walcott
PLANT LABORATORY 12-7-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

mfl

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		99		
Blend Weight, Pounds		81,000		
Date		12-7-77		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.9		
Polyvinyl Chloride, %	(79.0/82.0)	80.6		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	314	
	Color	(80 min.)	93	
	Turbidity	(85 min.)	97	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	3.0 *		
VCL MONOMER, PPM	(1 maximum)	<0.5		

UCC - 109460

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

H. L. Peacock
 PLANT LABORATORY 12-13-77
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

mfl

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		96	97	98
Blend Weight, Pounds		81,000	87,750	87,750
Date		11-30-77	11-22-77	11-23-77
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	REJECTED
Batch Status		4 (CEF)	4 (CEF)	4 (CEF)

Appearance (White, powdered, solid)			PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve					
Heating Loss, %		(3.0 max.)	2.5	2.5	2.4
Polyvinyl Chloride, %		(79.0/82.0)	81.0	79.3	79.3
Inherent Viscosity		(0.30 min.)	0.33	0.32	0.32
Foreign Matter, Slurry		(9 maximum)	7	10+ *	10 + *
Water, %		(1.0 max.)	0.2	0.4	0.2
Polyvinyl Alcohol, %					
Heat Stability					
Lead, ppm		(5 maximum)	5	10 *	6 *
Solution Tests	Viscosity, cps	(300/450)	390	301	315
	Color	(80 min.)	98	91	88
	Turbidity	(85 min.)	90	97	93
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	0.006	0.006
	Special Solvent				
Apparent Density, lbs/cu. ft.					
Maleic acid, %		(2.2/2.5)	2.6 *	2.5	2.5
VCL MONOMER, PPM		(1 maximum)	<0.5	<0.5	<0.5

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 TC
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

UCC - 109461

H. L. Roberts
PLANT LABORATORY 12-2-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

mfl

CONFIDENTIAL

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		95		
Blend Weight, Pounds		41,300		
Date		8-1-77		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.3		
Polyvinyl Chloride, %	(79.0/82.0)	80.6		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	10+*		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	4		
Solution Tests	Viscosity, cps	(300/450)	360	
	Color	(80 min.)	66*	
	Turbidity	(85 min.)	67*	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.02	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.7 *		
VCL MONOMER, PPM		<0.5		

UCC - 109462

Dr. J. J. Brezinski, 511
 Mr. M. E. Eisenhour, 515
 Mr. W. T. Gray, Bldg. 88 - TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189
 mfl

CONFIDENTIAL

H. L. Colwell
PLANT LABORATORY 8-8-
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		92	93	94
Blend Weight, Pounds		22,500	76,500	54,000
Date		7-29-77	7-27-77	7-28-77
Laboratory				
Disposition	VMCA-	REJECTED*	PASSED	REJECTED
Batch Status		4 (CEF)		4 (CEF)

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.4	2.6	2.0
Polyvinyl Chloride, %	(79.0/82.0)	81.2	80.7	80.0
Inherent Viscosity	(0.30 min.)	0.34	0.33	0.33
Foreign Matter, Slurry	(9 maximum)	7	7	4
Water, %	(1.0 max.)	0.7	0.4	0.3
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	-	3	3
Solution Tests	Viscosity, cps	(300/450)	365	315
	Color	(80 min.)	90	97
	Turbidity	(85 min.)	88	94
Insoluble Matter, %	10% Solution	(0.03 max.)	0.01	0.008
	Special Solvent			0.006
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.9*	2.4	3.0*
VCL MONOMER, PPM		<0.2	<0.2	<0.2

UCC - 109463

Dr. J. J. Brezinski, 511
 Mr. M. E. Eisenhour, 515
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

jjh

CONFIDENTIAL

[Signature]
PLANT LABORATORY 8-4-
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		91		
Blend Weight, Pounds		85,500		
Date		7-24-77		
Laboratory				
Disposition	VMCA-	PASSED		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.5		
Polyvinyl Chloride, %	(79.0/82.0)	81.3		
Inherent Viscosity	(0.30 min.)	0.33		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	300	
	Color	(80 min.)	92	
	Turbidity	(85 min.)	91	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.01	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.4		
VCL MONOMER, PPM	(1 max.)	<0.5		

UCC - 109464

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 TC
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

H. L. Smith
PLANT LABORATORY 7-26-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

mfl

(a) A CORRECTED REPORT
 "BAKELITE" VINYL RESIN
 (Solvent Polymerization)
 VMCA

Blend Number		90		
Blend Weight, Pounds		72,000		
Date		7-16-77		
Laboratory				
Disposition	VMCA-	PASSED (a)		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.0		
Polyvinyl Chloride, %	(79.0/82.0)	82.0		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	7		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	308 (a)	
	Color	(80 min.)	92	
	Turbidity	(85 min.)	85	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.4		
VCL MONOMER, PPM	(1 maximum)	<0.5		
(a) Reanalyzed and redispositioned. Please discard report dated 7-21-77.				

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

CONFIDENTIAL

H. L. Palmer
 PLANT LABORATORY 8-9-77
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

mfl

UCC - 109465

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
 VMCA

Blend Number		89		
Blend Weight, Pounds		119,250		
Date		8-1-77		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.5		
Polyvinyl Chloride, %	(79.0/82.0)	80.1		
Inherent Viscosity	(0.30 min.)	0.33		
Foreign Matter, Slurry	(9 maximum)	10+ *		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	3		
Solution Tests	Viscosity, cps	(300/450)	325	
	Color	(80 min.)	81	
	Turbidity	(85 min.)	88	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.01	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	3.05 *		
VCL MONOMER, PPM	(1 maximum)	<0.5		

Dr. J. J. Brezinski, 511
 Mr. M. E. Eisenhour, 515
 Mr. W. T. Gray, Bldg. 88 - TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

mfl

CONFIDENTIAL

H. L. O'Leary
 PLANT LABORATORY 8-10-77
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

UCC - 109466

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		88		
Blend Weight, Pounds		94,500		
Date		7-7-77		
Laboratory				
Disposition	VMCA-	PASSED		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.7		
Polyvinyl Chloride, %	(79.0/82.0)	79.9		
Inherent Viscosity	(0.30 min.)	0.36		
Foreign Matter, Slurry	(9 maximum)	7		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	310	
	Color	(80 min.)	97	
	Turbidity	(85 min.)	100	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.008	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5		
VCL MONOMER, PPM	(1 max.)	<0.5		

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

CONFIDENTIAL

H. G. [Signature]
 PLANT LABORATORY 7-18-77
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

mfl

UCC - 109467

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		87		
Blend Weight, Pounds		81,000		
Date		7-22-77		
Laboratory				
Disposition	VMCA-	PASSED		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.0		
Polyvinyl Chloride, %	(79.0/82.0)	80.9		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	4		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	3		
Solution Tests	Viscosity, cps	(300/450)	305	
	Color	(80 min.)	91	
	Turbidity	(85 min.)	93	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.01	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5		
VCL MONOMER, PPM	(1 max.)	<0.5		

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

CONFIDENTIAL

J. L. Palant
PLANT LABORATORY 7-26-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

mfl

UCC - 109468

(a) A CORRECTED REPORT
 "BAKELITE" VINYL RESIN
 (Solvent Polymerization)
 VMCA

Blend Number		86		
Blend Weight, Pounds		81,000		
Date		7-15-77		
Laboratory				
Disposition	VMCA-	PASSED (a)		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.1		
Polyvinyl Chloride, %	(79.0/82.0)	81.0		
Inherent Viscosity	(0.30 min.)	0.31		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.5		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	305 (a)	
	Color	(80 min.)	100	
	Turbidity	(85 min.)	100	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5		
VCL MONOMER, PPM	(1 maximum)	<0.5		
(a) Reanalyzed and corrected. Redispositioned. Please discard report dated 7-21-77.				

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 TC
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

mfl

CONFIDENTIAL

H. L. Calvert
 PLANT LABORATORY 8-9-77
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

UCC - 109469

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		83	84	85
Blend Weight, Pounds		79,200	58,500	63,000
Date		3-21-77	3-18-77	3-19-77
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	REJECTED
Batch Status		4 (CEF)	4 (CEF)	4 (CEF)

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.8	1.5	1.7
Polyvinyl Chloride, %	(79.0/82.0)	83.0 *	82.1 *	82.4 *
Inherent Viscosity	(0.30 min.)	0.32	0.32	0.31
Foreign Matter, Slurry	(9 maximum)	10 *	7	6
Water, %	(1.0 max.)	0.25	0.3	0.3
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	10 *	5	9 *
Solution Tests	Viscosity, cps	(300/450)	480 *	400
	Color	(80 min.)	85	82
	Turbidity	(85 min.)	93	90
Insoluble Matter, %	10% Solution	(0.03 max.)	0.01	0.01
	Special Solvent			0.008
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.2	2.0 *	2.1 *
VCL MONOMER, PPM	(DAR)	<0.5	<0.5	<0.5

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 Texas City
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

PLANT LABORATORY 4-13-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA

mfl

UCC - 109470

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		82		
Blend Weight, Pounds		117,000		
Date		3-11-77		
Laboratory				
Disposition	VMCA-			
Batch Status		REJECTED * 4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.4		
Polyvinyl Chloride, %	(79.0/82.0)	82.0		
Inherent Viscosity	(0.30 min.)	0.31		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	8 *		
Solution Tests	Viscosity, cps	(300/450)	341	
	Color	(80 min.)	92	
	Turbidity	(85 min.)	97	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.25		
VCL MONOMER, PPM	(DAR)	<0.5		

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 Texas City
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 3-18-77
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		80	81
Blend Weight, Pounds		36,000	33,750
Date		11-16-76	11-15-76
Laboratory			
Disposition	VMCA-	REJECTED *	REJECTED *
Batch Status		4 (CEF)	4 (CEF)

Appearance (White, powdered, solid)		PASSED	PASSED	
Size, % thru No. 20 Sieve				
Heating Loss, %		(3.0 max.)	1.2	1.3
Polyvinyl Chloride, %		(79.0/82.0)	82.0	81.8
Inherent Viscosity		(0.30 min.)	0.32	0.33
Foreign Matter, Slurry		(9 maximum)	6	10 *
Water, %		(1.0 max.)	0.3	0.3
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm		(5 maximum)	13 *	13 *
Solution Tests	Viscosity, cps	(300/450)	315	370
	Color	(80 min.)	87	87
	Turbidity	(85 min.)	94	92
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	0.006
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %		(2.2/2.5)	2.2	2.4
VCL MONOMER, PPM		(DAR)	<0.5	<0.5

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 Texas City
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 11-18-7
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA

mfl

UCC - 109472

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		78	79	
Blend Weight, Pounds		13,500	87,750	
Date		11-9-76	11-12-76	
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	
Batch Status		4 (CEF)	4 (CEF)	

Appearance (White, powdered, solid)		PASSED	PASSED	
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.4	2.6	
Polyvinyl Chloride, %	(79.0/82.0)	81.0	81.9	
Inherent Viscosity	(0.30 min.)	0.33	0.31	
Foreign Matter, Slurry	(9 maximum)	10 *	10 *	
Water, %	(1.0 max.)	0.35	0.30	
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	16 *	10 *	
Solution Tests	Viscosity, cps	(300/450)	308	325
	Color	(80 min.)	93	93
	Turbidity	(85 min.)	99	93
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	0.008
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.4	2.3	
VCL MONOMER, PPM	(DAR)	<0.5	<0.5	

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 Texas City

Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

[Signature]
PLANT LABORATORY
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA

CONFIDENTIAL

mfl

UCC - 109473

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		77		
Blend Weight, Pounds		78,750		
Date		11-18-76		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.9		
Polyvinyl Chloride, %	(79.0/82.0)	82.2 *		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	14 *		
Solution Tests	Viscosity, cps	(300/450)	275 *	
	Color	(80 min.)	92	
	Turbidity	(85 min.)	98	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.1 *		
VCL MONOMER, PPM	(DAR)	<0.5		

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 Texas City
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189


PLANT LABORATORY 11-23-76
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

CONFIDENTIAL

mfl

UCC - 109474

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		76		
Blend Weight, Pounds		74,250		
Date		11-15-76		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.3		
Polyvinyl Chloride, %	(79.0/82.0)	83.7 *		
Inherent Viscosity	(0.30 min.)	0.33		
Foreign Matter, Slurry	(9 maximum)	10 *		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	13 *		
Solution Tests	Viscosity, cps	(300/450)	355	
	Color	(80 min.)	89	
	Turbidity	(85 min.)	91	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.3		
VCL MONOMER, PPM	(DAR)	<0.5		

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 Texas City
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 11-17
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

mfl

UCC - 109475

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		74	75	
Blend Weight, Pounds		27,000	92,250	
Date		11-8-76	11-9-76	
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	
Batch Status		4 (CEF)	4 (CEF)	

Appearance (White, powdered, solid)		PASSED	PASSED	
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.1	1.9	
Polyvinyl Chloride, %	(79.0/82.0)	82.4 *	79.6	
Inherent Viscosity	(0.30 min.)	0.32	0.33	
Foreign Matter, Slurry	(9 maximum)	10 *	10 *	
Water, %	(1.0 max.)	0.3	0.3	
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	11 *	13 *	
Solution Tests	Viscosity, cps	(300/450)	445	390
	Color	(80 min.)	95	94
	Turbidity	(85 min.)	96	99
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	0.008
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.2	2.2	
VCL MONOMER, PPM	(DAR)	<0.5	<0.5	

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 Texas City
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
 PLANT LABORATORY 11-11-76
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

mfl

UCC - 109476

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		73		
Blend Weight, Pounds		81,000		
Date		11-11-76		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.1		
Polyvinyl Chloride, %	(79.0/82.0)	82.0		
Inherent Viscosity	(0.30 min.)	0.30		
Foreign Matter, Slurry	(9 maximum)	4		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	16 *		
Solution Tests	Viscosity, cps	(300/450)	283 *	
	Color	(80 min.)	95	
	Turbidity	(85 min.)	98	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.2		
VCL MONOMER, PPM	(DAR)	<0.5		

Dr. J. J. Brezinski, 511
Mr. C. E. Fry, 152
Mr. W. T. Gray, Bldg. 88 Texas City
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 11-19-76
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

mfl

UCC - 109477

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		72		
Blend Weight, Pounds		20,250		
Date		11-3-76		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.6		
Polyvinyl Chloride, %	(79.0/82.0)	84.7 *		
Inherent Viscosity	(0.30 min.)	0.34		
Foreign Matter, Slurry	(9 maximum)	10 *		
Water, %	(1.0 max.)	0.35		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	9 *		
Solution Tests	Viscosity, cps	(300/450)	725 *	
	Color	(80 min.)	95	
	Turbidity	(85 min.)	95	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.10 *	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.4		
VCL MONOMER, PPM		<0.5		

Dr. J. J. Brezinski, 511
 Mr. C. E. Fry, 152
 Mr. W. T. Gray, Bldg. 88 Texas City
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
 PLANT LABORATORY 11-5-76
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

mfl

UCC - 109478

~~X-X-X-A-G~~

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		71		
Blend Weight, Pounds		99.000		
Date		3-1-75		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.8		
Polyvinyl Chloride, %	(79.0/82.0)	80.7		
Inherent Viscosity	(0.30 min.)	0.31		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	17 *		
Solution Tests	Viscosity, cps	(300-450)	420	
	Color	(80 min.)	93	
	Turbidity	(85 min.)	94	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.01	
	Special Solvent			
Apparent Density, lbs/cu ft.		28		
Maleic acid, %	(2.2-2.5)	2.3		
VCL MONOMER, PPM		<0.7		

UCC - 109479

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 513
Mr. C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 3-11-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		70		
Blend Weight, Pounds		161.700		
Date		3-4-75		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.3		
Polyvinyl Chloride, %	(79.0/82.0)	81.0		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	9		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	12 *		
Solution Tests	Viscosity, cps	(300/450)	390	
	Color	(80 min.)	97	
	Turbidity	(85 min.)	97	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	
	Special Solvent			
Apparent Density, lbs/cu. ft.		30		
Maleic acid, %	(2.2/2.5)	2.3		
VCL MONOMER, PPM		<0.7		

UCC - 109480

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 515
C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 3-7-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		68		
Blend Weight, Pounds		90,000		
Date		3-2-75		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.8		
Polyvinyl Chloride, %	(79.0/82.0)	81.5		
Inherent Viscosity	(0.30 min.)	0.33		
Foreign Matter, Slurry	(9 maximum)	10 *		
Water, %	(1.0 max.)	0.15		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	9 *		
Solution Tests	Viscosity, cps	(300/450)	365	
	Color	(80 min.)	94	
	Turbidity	(85 min.)	95	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu. ft.		31		
Maleic acid, %	(2.2/2.5)	2.4		
VCL MONOMER, PPM		<0.7		

UCC - 109481

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. E. Eisenhour, 515
Mr. C. E. Fry, 152/
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 3-11-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		69		
Blend Weight, Pounds		108,000		
Date		2-25-75		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEE)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.5		
Polyvinyl Chloride, %	(79.0/82.0)	81.0		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	7		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	10 *		
Solution Tests	Viscosity, cps	(300/450) 345		
	Color	(80 min.) 96		
	Turbidity	(85 min.) 92		
Insoluble Matter, %	10% Solution	(0.03 max.) 0.008		
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.3		
Iron, ppm (DAR)		2		
VCL MONOMER, PPM		<0.7		

UCC - 109482

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 515
C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 2-27-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

~~R-E-X-2~~

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		67		
Blend Weight, Pounds		40,500		
Date		2-26-75		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.1		
Polyvinyl Chloride, %	(79.0/82.0)	80.8		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	3		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	35 *		
Solution Tests	Viscosity, cps	(300/450)	445	
	Color	(80 min.)	98	
	Turbidity	(85 min.)	97	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.01	
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.4		
VCL MONOMER, PPM		<0.7		

WCU

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 515
Mr. C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

UCC - 109483

CONFIDENTIAL

[Signature]
PLANT LABORATORY 3-7-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

~~XXXX-6~~

*Make you
check serial #?
yes*

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		60		
Blend Weight, Pounds		81,000		
Date		2-23-75		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEE)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.3		
Polyvinyl Chloride, %	(79.0/82.0)	81.1		
Inherent Viscosity	(0.30 min.)	0.31		
Foreign Matter, Slurry	(9 maximum)	5		
Water, %	(1.0 max.)	0.3		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	10 *		
Solution Tests	Viscosity, cps	(300/450)	365	
	Color	(80 min.)	97	
	Turbidity	(85 min.)	92	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs/cu.ft.				
Maleic acid, %	(2.2/2.5)	2.3		
VCL MONOMER, PPM		<0.7		

UCC - 109484

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 515
Mr. C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 2-27-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		66		
Blend Weight, Pounds		103,500		
Date		2-22-75		
Laboratory				
Disposition	VMCA-	REJECTED *		
Batch Status		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.6		
Polyvinyl Chloride, %	(79.0/82.0)	79.1		
Inherent Viscosity	(0.30 min.)	0.31		
Foreign Matter, Slurry	(9 maximum)	4		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	16 *		
Solution Tests	Viscosity, cps	(300/450)	300	
	Color	(80 min.)	98	
	Turbidity	(85 min.)	97	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	
	Special Solvent			
Apparent Density, lbs/cu ft.				
Maleic acid, %	(2.2/2.5)	2.67 * —		
VCL MONOMER, PPM		<0.7		

UCC - 109485

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. E. E. Eisenhour, 515
Mr. C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 3-4-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		62	63	
Blend Weight, Pounds		81,000	81,000	
Date		2-18-75	2-21-75	
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	
Batch Status				

Appearance (White, powdered, solid)		PASSED	PASSED	
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.9	2.7	
Polyvinyl Chloride, %	(79.0/82.0)	80.2	80.3	
Inherent Viscosity	(0.30 min.)	0.33	0.32	
Foreign Matter, Slurry	(9 maximum)	10 *	10 *	
Water, %	(1.0 max.)	0.2	0.2	
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	8 *	8 *	
Solution Tests	Viscosity, cps	(300/450)	325	313
	Color	(80 min.)	99	96
	Turbidity	(85 min.)	92	99
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	0.004
	Special Solvent			
Apparent Density, lbs./cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5	2.6 *	
VCL MONOMER, PPM		<0.7	<0.7	
Iron, ppm (DAR)		1	2	

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. J. E. Eisenhour, 515
Mr. C. E. Fry, 132
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

UCC - 109486

CONFIDENTIAL

[Signature]
PLANT LABORATORY 2-27-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		65		
Blend Weight, Pounds		128.750		
Date		2-19-75		
Laboratory				
Disposition	VMCA-			
Batch Status		REJECTED *		
		4 (CEF)		

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.6		
Polyvinyl Chloride, %	(79.0-82.0)	80.2		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	10 *		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	8 *		
Solution Tests	Viscosity, cps	(300-450)	315	
	Color	(50 min.)	97	
	Turbidity	(85 min.)	95	
Insoluble Matter, %	10% Solution	(0.00 max.)	0.006	
	Special Solvent			
Apparent Density, lbs. cu. ft.				
Maleic acid, %	(2.2-2.5)	2.5		
VCL MONOMER, PPM		0.7		
Iron, ppm		1		

UCC - 109487

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 311
Mr. M. E. Eisenhour, 315
Mr. C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 2-27-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

X-8-2-X-5

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		64		
Blend Weight, Pounds		99,000		
Date		2-15-75		
Laboratory				
Disposition	VMCA-	PASSED		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.9		
Polyvinyl Chloride, %	(79.0/82.0)	79.8		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	9		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	2		
Solution Tests	Viscosity, cps	(300/450)	313	
	Color	(80 min.)	92	
	Turbidity	(85 min.)	94	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.002	
	Special Solvent			
Apparent Density, lbs. cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5		
VCL MONOMER, PPM		<0.7		

UCC - 109488

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 515
Mr. C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 2-18-75
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		61		
Blend Weight, Pounds		101.250		
Date		2-11-75		
Laboratory				
Disposition	VMCA-	PASSED		
Batch Status				

Appearance (White, powdered, solid)		PASSED		
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.6		
Polyvinyl Chloride, %	(79.0/82.0)	81.4		
Inherent Viscosity	(0.30 min.)	0.32		
Foreign Matter, Slurry	(9 maximum)	8		
Water, %	(1.0 max.)	0.2		
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	5		
Solution Tests	Viscosity, cps	(300/450)	320	
	Color	(80 min.)	98	
	Turbidity	(85 min.)	96	
Insoluble Matter, %	10% Solution	(0.03 max.)	0.006	
	Special Solvent			
Apparent Density, lbs. cu. ft.				
Maleic acid, %	(2.2 '2.5)	2.3		
VCL MONOMER, PPM		0.7		

UCC - 109489

Mr. G. P. Bigelow, NYO
 Dr. J. J. Brezinski, 511
 Mr. M. E. Eisenhour, 515
 Mr. J. E. Fry, 152/
 Mr. G. S. Peacock, 312
 Mr. T. J. Salerno, 312
 Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
 PLANT LABORATORY 2-18-75
 UNION CARBIDE CORPORATION
 CHEMICALS AND PLASTICS
 SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		51	52	53
Blend Weight, Pounds		81,000	101,250	81,000
Date		9-29-74	10-1-74	10-7-74
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	REJECTED *
Batch Status				

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	1.8	1.9	2.5
Polyvinyl Chloride, %	(79.0/82.0)	82.2	81.6	81.1
Inherent Viscosity	(0.30 min.)	0.34	0.32	0.32
F sign Matter, Slurry	(9 maximum)	3	3	9
Water, %	(1.0 max.)	0.2	0.3	0.3
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	10 *	9 *	23 *
Solution Tests	Viscosity, cps	(300/450)	495 *	380
	Color	(80 min.)	95	95
	Turbidity	(85 min.)	93	98
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	0.006
	Special Solvent			0.008
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.5	2.3	2.8 *
VCL MONOMER, %		1.5	1.5	1.5

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 515
Mr. C. E. Fry, 152
Mr. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

UCC - 109490

CONFIDENTIAL

[Signature]
PLANT LABORATORY
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VCL

Blend Number	54	55	56
Blend Weight, Pounds	103	6,750	81,000
Date	10-3-74	9-27-74	10-4-74
Laboratory			
Disposition, VMCA-	PASSE	REJECTED *	REJECTED *
Batch Status		4 (CEF)	4 (CEF)

Appearance (White, powd., -40°F)	PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve			
Heating Loss, % (3.0 max.)	2.6	2.5	2.6
Polyvinyl Chloride, % (79.0-82.0)	81.0	81.6	82.5
Inherent Viscosity (0.30 min.)	0.32	0.31	0.32
Moisture Matter, Slurry (9 maximum)	5	10 *	6
Water, % (1.0 max.)	0.3	0.2	0.2
Polyvinyl Alcohol, %			
Heat Stability			
Lead, ppm (5 maximum)	4	11 *	6 *
Solution Tests	Viscosity, cps (300-450)	305	350
	Color (80 min.)	95	95
	Turbidity (85 min.)	97	91
Insoluble Matter, %	10% Solution (0.03 max.)	0.006	0.002
	Special Solvent		0.006
Apparent Density, lbs/cu. ft.			
Valeric acid, % (2.2-2.5)	2.4	0.8 *	1.9 *
VCL MONOMER, PPM	1.5	1.5	1.5

UCC - 109491

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhower, 315
Mr. C. E. Fry, 152
Mr. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

CONFIDENTIAL

[Signature]
PLANT LABORATORY 10-18-74
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

"BAKELITE" VINYL RESIN
(Solvent Polymerization)
VMCA

Blend Number		57	58	59
Blend Weight, Pounds		92.250	118,600	33,750
Date		10-5-74	10-8-74	10-5-74
Laboratory				
Disposition	VMCA-	REJECTED *	REJECTED *	REJECTED *
Batch Status				

Appearance (White, powdered, solid)		PASSED	PASSED	PASSED
Size, % thru No. 20 Sieve				
Heating Loss, %	(3.0 max.)	2.7	2.9	2.8
Polyvinyl Chloride, %	(79.0/82.0)	82.0	81.2	80.2
Inherent Viscosity	(0.30 min.)	0.31	0.34	0.31
Foreign Matter, Slurry	(9 maximum)	3	5	3
Water, %	(1.0 max.)	0.3	0.3	0.2
Polyvinyl Alcohol, %				
Heat Stability				
Lead, ppm	(5 maximum)	7 *	10 *	31 *
Solution Tests	Viscosity, cps	(300/450)	296	365
	Color	(80 min.)	97	93
	Turbidity	(85 min.)	98	88
Insoluble Matter, %	10% Solution	(0.03 max.)	0.004	0.008
	Special Solvent			
Apparent Density, lbs/cu. ft.				
Maleic acid, %	(2.2/2.5)	2.0	2.8 *	2.8 *
VCL MONOMER, PPM		<1.5	<1.5	<1.5

Mr. G. P. Bigelow, NYO
Dr. J. J. Brezinski, 511
Mr. M. E. Eisenhour, 515
Mr. C. E. Fry, 152
Mr. G. S. Peacock, 312
Mr. T. J. Salerno, 312
Mr. R. N. Wheeler, 189

UCC - 109492

CONFIDENTIAL

[Signature]
PLANT LABORATORY 10-18-74
UNION CARBIDE CORPORATION
CHEMICALS AND PLASTICS
SOUTH CHARLESTON, WEST VA.

LEVEL

Field Number	75
Sample Number	75-100
Location	75-100
REJECTED *	
(CEF)	
PASSED	
1.2	
51.7	
0.32	
3	
0.2	
20 *	
380	
91	
94	
0.005	
2.5	
6	
<1.5	

Mr. G. P. ...
 Mr. J. J. P. ...
 Mr. M. ...
 Mr. C. ...
 Mr. S. ...
 Mr. T. ...
 Mr. N. ...

UCC - 109493

CONFIDENTIAL

PLASTIC FACTORY 6-3-74
 CHEMICAL CORPORATION
 CHEMICAL PLASTICS
 WESTON, WEST VA.

Blend Number		49
Blend Weight		96,000
Date		5-27-74
		REJECTED * (CEF)
		REJECTED * (CEF)
		REJECTED * (CEF)
Blend Number		PASSED
Blend Weight		PASSED
Date		PASSED
		2.0
		3.2 *
		31.4
		0.32
		1
		0.3
Dens. at 20°C		
App. Visc.		
Liquid, ppm		2 *
Solid, ppm		370
Solution		195
Test		94
Color		94
Turbidity		99
Insoluble in Solution		0.004
Water 7 Special Solvent		
Apparent Density (Hs. 12)		
Solvent		2.2
Iron, ppm		3
Vinyl Chloride Monomer, ppm		1.5

UCC - 109494

CONFIDENTIAL

6-3-74
CORPORATION
PLASTICS
HARRINGTON, WEST VA.